BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

1ST AND FINAL BILL

Name of Work: Improvements to roads And drains, Dobhighat and Surrounding areas at Ananthapura in Ward No 03 Attur

Job Code: 003-20-000138

Pcode: P2178, Work Sanctioned by Dy.Mayor

Est Cost: 100.00 Lakhs

AS No: - EE/YNK/AS/36/2020-21, Dated: 28.08.2020

TS No: - SE/YNK/TS/32/2020-21, Dated: 21.09.2020

Work Order No: BBMP/EE/YNK.D/EPMT-8/W.O/216/2020-21, Dated: 13.01.2021

As per Work Order Amount :- Rs.1,00,47,088/-

Name of the Contractor: - Sri.Umesh N

Detailed Mesurements

Item No	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount in Lakhs
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification as per the directions of Engineer In-Charge										
	Qty Taken from Pre measurement Item No. 1 Page No.1 & 2							Cum	1330.75		
							Total =	Cum	1330.75	207.60	276263.70
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. As Per Engineer In-Charge										
	Qty Taken from Pre measurement Item No. 2 page No.3 & 4							Cum	243.29		
							Total =	Cum	243.29	5509.33	1340364.90
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications -do- Wall & bottom thickness 15cm as per the directions of Engineer In-Charge										
	For RCC Drain										
	For Bed Concrete										
	From 1st Cross Road Ananthapura to BBMP Park										
	RHS	1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	12.70	1.00	0.15	0.15	0.15		1.91		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	1.80	1.00	0.15	0.15	0.15		0.27		
	From BBMP Park to 1st Cross Road Ananthapura										
	LHS	1	27.00	1.00	0.15	0.15	0.15		4.05		
		1	25.00	1.00	0.15	0.15	0.15		3.75		
		1	20.20	1.00	0.15	0.15	0.18		3.03		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
	CHS 707 Near Manjunatha Mart										
	RHS	1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		

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Item No	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount in Lakhs
		1	29.00	1.00	0.15	0.15	0.15		4.36		
	LHS	1	26.00	1.00	0.15	0.15	0.15		3.90		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	28.00	1.00	0.15	0.15	0.15		4.20		
	From Muneshwara Nagara, 11th Cross, 1st Main Road to BBMP Limit										
	RHS	1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	3.70	1.00	0.15	0.15	0.15		0.56		
	From BBMP Limit to Muneshwara Nagara, 11th Cross, 1st Main Road										
	LHS	1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	9.00	1.00	0.15	0.15	0.15		1.35		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	12.60	1.00	0.15	0.15	0.15		1.89		
		1	19.60	1.00	0.15	0.15	0.15		2.94		
	Muneshwara Nagara, 1st Cross										
	RHS	1	14.70	1.00	0.15	0.15	0.15		2.21		
	For RCC Culvert										
	Near 1st Cross Road Ananthapura										
	Culvert-1	1	6.80	1.20	0.23	0.23	0.23		1.88		
	Near 3rd Main Road From 3rd Cross Road										
	Culvert-2	1	4.30	1.20	0.23	0.23	0.23		1.19		
	For Side wall										
	From 1st Cross Road Ananthapura to BBMP Park										
	RHS	2	30.00	0.15	0.60	0.65	0.63		5.63		
		2	12.70	0.15	0.65	0.70	0.68		2.57		
		2	30.00	0.15	0.62	0.72	0.67		6.03		
		2	30.00	0.15	0.72	0.70	0.71		6.39		
		2	30.00	0.15	0.70	0.72	0.71		6.39		
		2	30.00	0.15	0.72	0.71	0.72		6.44		
		2	30.00	0.15	0.71	0.70	0.71		6.35		
		2	30.00	0.15	0.70	0.68	0.69		6.21		
		2	1.80	0.15	0.68	0.70	0.69		0.37		
	From BBMP Park to 1st Cross Road Ananthapura										
	LHS	2	27.00	0.15	0.72	0.75	0.74		5.95		
		2	25.00	0.15	0.75	0.80	0.78		5.81		
		2	20.20	0.15	0.80	0.73	0.77		4.64		
		2	30.00	0.15	0.73	0.62	0.68		6.08		
		2	30.00	0.15	0.62	0.60	0.61		5.49		
	CHS 707 Near Manjunatha Mart										
	RHS	2	30.00	0.15	0.62	0.60	0.61		5.49		
		2	30.00	0.15	0.60	0.70	0.65		5.85		
		2	29.00	0.15	0.70	0.72	0.71		6.18		
	LHS	2	26.00	0.15	0.72	0.71	0.72		5.58		
		2	30.00	0.15	0.71	0.70	0.71		6.35		
		2	28.00	0.15	0.70	0.68	0.69		5.80		
	From Muneshwara Nagara, 11th Cross, 1st Main Road to BBMP Limit										
	RHS	2	30.00	0.15	0.65	0.70	0.68		6.08		
		2	30.00	0.15	0.70	0.68	0.69		6.21		
		2	30.00	0.15	0.70	0.72	0.71		6.39		

Item No	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount in Lakhs
		2	30.00	0.15	0.72	0.71	0.72		6.44		
		2	30.00	0.15	0.71	0.70	0.71		6.35		
		2	30.00	0.15	0.70	0.68	0.69		6.21		
		2	30.00	0.15	0.68	0.70	0.69		6.21		
		2	30.00	0.15	0.72	0.75	0.74		6.62		
		2	30.00	0.15	0.75	0.68	0.72		6.44		
		2	3.70	0.15	0.68	0.72	0.70		0.78		
	From BBMP Limit to Muneshwara Nagara, 11th Cross, 1st Main Road										
	LHS	2	30.00	0.15	0.72	0.71	0.72		6.44		
		2	30.00	0.15	0.71	0.70	0.71		6.35		
		2	30.00	0.15	0.70	0.68	0.69		6.21		
		2	30.00	0.15	0.68	0.70	0.69		6.21		
		2	30.00	0.15	0.70	0.68	0.69		6.21		
		2	9.00	0.15	0.68	0.70	0.69		1.86		
		2	30.00	0.15	0.70	0.70	0.70		6.30		
		2	30.00	0.15	0.70	0.68	0.69		6.21		
		2	12.60	0.15	0.68	0.72	0.70		2.65		
		2	19.60	0.15	0.72	0.73	0.73		4.26		
	Muneshwara Nagara, 1st Cross										
	RHS	2	14.70	0.15	0.70	0.73	0.72		3.15		
	For Side wall										
	For RCC Culvert										
	Near 1st Cross Road Ananthapura										
	Culvert-1	2	6.80	0.30	0.60	0.60	0.60		2.45		
	Near 3rd Main Road From 3rd Cross Road										
	Culvert- 2	2	4.30	0.30	0.60	0.60	0.60		1.55		
	For Ramp Portion										
	Near 1st Cross Road Ananthapura										
	Culvert- 1	2	6.80	0.75	0.10	0.20	0.15		1.53		
	Near 3rd Main Road From 3rd Cross Road										
	Culvert- 2	1	4.30	0.70	0.10	0.20	0.15		0.45		
		1	4.30	1.20	0.10	0.20	0.15		0.77		
	For Compound Wall Protection										
		1	30.00	0.20	0.15	0.15	0.15		0.90		
							Present Qty =	**Cum**	**394.23**		
							Total =	**Cum**	**394.23**	**7189.42**	**2834273.55**
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as per specification. as per the directions of Engineer In-Charge										
	Qty Taken from Pre measurement Item No. 4 Page No.5 & 6							**Tonne**	**25.78**		
							Total =	**Tonne**	**25.78**	**66712.16**	**1719863.50**
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Engineer In-Charge										
	For RCC Drain Covering Slab										
	From 1st Cross Road Ananthapura to BBMP Park										
	RHS	1	30.00	0.90					27.00		
		1	12.70	0.90					11.43		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		

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Item No	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount in Lakhs
		1	1.80	0.90					1.62		
	From BBMP Park to 1st Cross Road Ananthapura										
	LHS	1	27.00	0.90					24.30		
		1	25.00	0.90					22.50		
		1	20.20	0.90					18.18		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
	Missing Slab	1	30.00	0.90					27.00		
		1	25.00	0.90					22.50		
	CHS 707 Near Manjunatha Mart										
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	29.00	0.90					26.10		
	LHS	1	26.00	0.90					23.40		
		1	30.00	0.90					27.00		
		1	28.00	0.90					25.20		
	From Muneshwara Nagara, 11th Cross, 1st Main Road to BBMP Limit										
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	3.70	0.90					3.33		
	From BBMP Limit to Muneshwara Nagara, 11th Cross, 1st Main Road										
	LHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	9.00	0.90					8.10		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	12.60	0.90					11.34		
		1	19.60	0.90					17.64		
	Muneshwara Nagara, 1st Cross										
	RHS	1	14.70	0.90					13.23		
							Present Qty =	**Sqm**	**1011.87**		
							Limited Qty =	**Sqm**	**1008.45**	**2337.00**	**2356747.65**
6	Providing and fixing Precast RCC cover slabs of 250 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)										
	For RCC Culvert										
a	Near 1st Cross Road Ananthapura										
	Culvert-1	1	6.80	1.20					8.16		
b	Near 3rd Main Road From 3rd Cross Road										
	Culvert-2	1	4.30	1.20					5.16		
c	Missing Slabs										
	Near Manjunatha Mart	1	2.00	1.20					2.40		
	3rd Cross Road	1	2.00	1.20					2.40		
							Present Qty =	**Sqm**	**18.12**		
							Limited Qty =	**Sqm**	**18.00**	**5418.00**	**97524.00**

Item No.	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount in Lakhs
7	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications as per the directions of Engineer In-Charge										
	Qty Taken from Pre measurement Item No. 7 Page No.7							**Cum**	**416.00**		
							Total =	**Cum**	**416.00**	**6.00**	**2496.00**
8	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) as per the directions of Engineer In-Charge										
	For CC Road										
	Near Dobhighat area										
		1	15.80	7.00	7.00	7.00	0.15		16.59		
		1	5.40	6.40	8.30	7.35	0.15		5.95		
		1	15.00	5.00	4.20	4.60	0.15		10.35		
		1	15.00	4.20	4.60	4.40	0.15		9.90		
		1	15.00	4.60	6.35	5.48	0.15		12.32		
		1	4.40	6.35	8.80	7.58	0.15		5.00		
		1	5.80	4.20	7.60	5.90	0.15		5.13		
		1	8.80	6.40	4.50	5.45	0.15		7.19		
							Present Qty =	**Cum**	**72.44**		
							Limited Qty =	**Cum**	**62.40**	**5354.02**	**334090.85**
										SUB TOTAL	**8961624.15**
										ADD 12% GST CHARGES	**1075394.90**
										GRAND TOTAL	**10037019.05**

Assistant Engineer
Ward No.08
9/4/2021

Assistant Executive Engineer
Yelahanka Satellite Town Sub-Division